

ABSTRACT OF THE DISCLOSURE

A method for depositing a coating of a nanostructure material onto a substrate includes : (1) forming a solution or suspension of containing the nanostructure material; (2) selectively adding "chargers" to the solution; (3) immersing electrodes in the solution, the substrate upon which the nanostructure material is to be deposited acting as one of the electrodes; (4) applying a direct and/or alternating current electrical field between the two electrodes for a certain period of time thereby causing the nanostructure materials in the solution to migrate toward and attach themselves to the substrate electrode; and (5) subsequent optional processing of the coated substrate.